



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/663,061
Filing Date	September 12, 2003
First Named Inventor	Charles N. S. rhan
Art Unit	1621
Examiner Name	S. Kumar

Sheet 1 of 5

Attorney Docket Number 7213.13

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4,666,701	5/19/1987	Horrobin et al.	
		US- 5,409,955	4/25/1995	Bockow et al.	
		US- 5,411,988	5/2/1995	Bockow et al.	
		US- 5,709,855	1/20/1998	Bockow	
		US- 6,201,022	3/13/2001	Mease et al.	
		US- 4,201,211	5/6/1980	Chandrasekaran et al.	
		US- 5,814,599	9/29/1998	Mitragotri et al.	
		US- 5,846,974	12/8/1998	Kallman et al.	
		US- 4,810,424	3/7/1989	Gerwick, et al.	
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**FOREIGN PATENT DOCUMENTS**

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		Country Code:	Number - Kind Code (if known)				YES	NO
		WO	91/16914	11/14/1991			<input type="checkbox"/>	<input type="checkbox"/>
		WO	98/46588	10/22/1998			<input type="checkbox"/>	<input type="checkbox"/>
		JP	5186342	7/27/1993	Bunshiyou et al.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		YD	002404733				<input type="checkbox"/>	<input type="checkbox"/>
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							<input type="checkbox"/>	<input type="checkbox"/>

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				First Named Inv ntor	Charles N. S rhan
				Art Unit	1621
				Examiner Name	S. Kummer
Sheet	2	of	5	Attorney Docket Number	7213.13

**OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
		PCT/US01/05196 International Search Report	<input type="checkbox"/>	<input type="checkbox"/>
		J.W. Karanian et al., "Physiological functions of hydroxy - docosahexaenoic acid", Abstract, XP-002200246, 1993.	<input type="checkbox"/>	<input type="checkbox"/>
		E.M. Hill, et al. "Identification and egg hatching activity of monohydroxy fatty acid eicosanoids in the barnacle Balanus balanoides", Abstract, XP-002200247, 1992.	<input type="checkbox"/>	<input type="checkbox"/>
		L. De Montarby, et al. "Synthesis stereoselectives de metabolites hydroxyles d'acides gras polinsatures", Bulletin De La Societe Chimique de France, No. 3, pgs. 419-432, 1989.	<input type="checkbox"/>	<input type="checkbox"/>
		M. Yamane, et al., "Docosahexaenoic/arachidonic acid $\omega$ -hydroxylation system and differentiation in the human clonic adenocarcinoma cell line, Caco-2", Cancer Letters, Vol. 122, pgs. 51-59, 1998.	<input type="checkbox"/>	<input type="checkbox"/>
		T. Kato, et al., "Production of Hydroxy Unsaturated Fatty Acids Using Crude Lipoygenase Obtained from Infected Rice Plants", Bull. Chem. Soc. Jpn. Vol. 69, pgs. 1663-1666, 1996.	<input type="checkbox"/>	<input type="checkbox"/>
		W.E.M. Lands, "Proceedings of the AOCS Short Course on Polyunsaturated Fatty Acids and Eicosanoids", American Oil Chemists' Society 1987.	<input type="checkbox"/>	<input type="checkbox"/>
		M. Ligo et al., "Inhibitory effects of docosahexaenoic acid on colon carcinoma 26 metastasis to the lung", Br. J. Cancer, 1997, pgs. 650-655.	<input type="checkbox"/>	<input type="checkbox"/>
		G.E. Billman et al., "Prevention of sudden cardiac death by dietary pure $\omega$ -3 polyunsaturated fatty acids in dogs", Circulation 99 1999, pgs. 2452-2457.	<input type="checkbox"/>	<input type="checkbox"/>
		A.P. Simopoulos, "Workshop on the essentiality of an recommended dietary intakes for omega-6 and omega-3 fatty acids", J. Am. Coll. Nutr. 1999, pgs. 487-489.	<input type="checkbox"/>	<input type="checkbox"/>
		R. Marchioloi, "Dietary supplementation with n-3 polyunsaturated fatty acids and vitamin E after myocardial infarction: results of the GISSI-Prevenzione trial", Lancet 1999, pgs. 447-455.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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<i>[Signature]</i>	<i>[Signature]</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



PTO/SB/08A (10/01) (modified)  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO				Application Number		10/663,061					
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Filing Date		September 12, 2003					
				First Named Inventor		Charles N. Serhan					
				Art Unit		1625					
				Examiner Name		S. Jernstedt					
Sheet		3		of		5		Attorney Docket Number		7213.13	
<b>OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS</b>											
*Examiner Initials		Cite No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published						TRANSLATION	
										YES NO	
				G. Weissmann, "Aspirin", <i>Sci. Am.</i> 1991, pgs. 84-90.						<input type="checkbox"/> <input type="checkbox"/>	
				A.J. Marcus, "Platelets: their role in hemostasis, thrombosis, and inflammation", <i>Inflammation: Basic Principles and Clinical Correlates</i> 1999, pgs. 77-95.						<input type="checkbox"/> <input type="checkbox"/>	
				J. Claria et al., "Aspirin triggers previously undescribed bioactive eicosanoids by human endothelial cell-leukocyte interactions", <i>Proc. Natl. Acad. Sci. USA</i> 1995, pgs. 9475-9479.						<input type="checkbox"/> <input type="checkbox"/>	
				C.N. Serhan et al., "Design of lipoxin A4 stable analogs that block transmigration and adhesion of human neutrophils", <i>Biochemistry</i> 1995, pgs. 14609-14615.						<input type="checkbox"/> <input type="checkbox"/>	
				N. Chiang et al., "Leukotriene B4 receptor transgenic mice reveal novel protective roles for lipoxins and aspirin-triggered lipoxins in reperfusion", <i>J. Clin. Invest.</i> 1999, pgs. 309-316.						<input type="checkbox"/> <input type="checkbox"/>	
				H.R. Herschman, "Recent progress in the cellular and molecular biology of prostaglandin synthesis", <i>Trends Cardiovasc. Med.</i> 1998, pgs. 145-150.						<input type="checkbox"/> <input type="checkbox"/>	
				P. Needleman et al., "The discovery and function of COX-2", <i>J. Rheumatol</i> 1997, pgs. 6-8.						<input type="checkbox"/> <input type="checkbox"/>	
				N. Chiang et al., "Aspirin-triggered 15-epi-lipoxin A4 (ATL) generation by human leukocytes and murine peritonitis exudates: Development of a specific 15-epi-LXA4 ELISA", <i>J. Pharmacol. Exp. Ther.</i> 1998, pgs. 779-790.						<input type="checkbox"/> <input type="checkbox"/>	
				G. Xiao et al., "Analysis of hydroperoxide-induced tyrosyl radicals and lipoxygenase activity in aspirin-treated human prostaglandin H synthase-2", <i>Biochemistry</i> 1997, pgs. 1836-1845.						<input type="checkbox"/> <input type="checkbox"/>	
				K. Node et al., "Anti-inflammatory properties of cytochrome P450 epoxygenase-derived eicosanoids", <i>Science</i> 1999, pgs. 1276-1279.						<input type="checkbox"/> <input type="checkbox"/>	
				S. Sethi et al., "Inhibition of phagocyte-endothelium interactions by oxidized fatty acids: A natural anti-inflammatory mechanism?", <i>J. Lab. Clin. Med.</i> 1996, pgs. 27-38.						<input type="checkbox"/> <input type="checkbox"/>	
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				First Named Inventor	Charles N. Serhan
				Art Unit	162
				Examiner Name	S. Kumar
Sheet	4	of	5	Attorney Docket Number	7213.13

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			YES	NO
		G.N. Levy, "Prostaglandin H synthases, nonsteroidal anti-inflammatory drugs, and colon cancer", <i>FASEB J.</i> 1997, pgs. 234-247.	<input type="checkbox"/>	<input type="checkbox"/>
		K. Gronert, et al., "Transcellular regulation of eicosanoid biosynthesis", <i>Eicosanoid Protocols</i> 1999, pgs. 119-144.	<input type="checkbox"/>	<input type="checkbox"/>
		H.J. George et al., "Expression purification and characterization of recombinant human inducible prostaglandin G/H synthase from baculovirus-infected insect cells", <i>Protein Express. Purif.</i> 1996, pgs. 19-26.	<input type="checkbox"/>	<input type="checkbox"/>
		J.H. Capdevila et al., "The highly stereoselective oxidation of polyunsaturated fatty acids by cytochrome P450BM-3", <i>J. Biol. Chem.</i> 1996, pgs. 22663-22671.	<input type="checkbox"/>	<input type="checkbox"/>
		R.T. Ruettinger et al., "Epoxidation of unsaturated fatty acids by a soluble cytochrome P-45-dependent system from bacillus megaterium", <i>J. Biol. Chem.</i> 1981, pgs. 5728-5734.	<input type="checkbox"/>	<input type="checkbox"/>
		T.H. Lee et al., "Characterization and biologic properties of 5,12-dihydroxy derivatives of eicosapentaenoic acid, including leukotriene B5 and the double lipxygenase product", <i>J. Biol. Chem.</i> 1984, pgs. 2383-2389.	<input type="checkbox"/>	<input type="checkbox"/>
		C.N. Serhan et al., "Nomenclature of lipoxins and related compounds derived from arachidonic acid and eicosapentaenoic acid", <i>Prostaglandins</i> 1987, pgs. 201-204.	<input type="checkbox"/>	<input type="checkbox"/>
		D.J. Hill et al., "Trout thrombocytes contain 12-but not 5-lipoxygenase activity", <i>Biochim. Biophys. Acta</i> 1999, pgs. 63-70.	<input type="checkbox"/>	<input type="checkbox"/>
		B.N. Cronstein et al., "A mechanism for the anti-inflammatory effects of corticosteroids: The glucocorticoid receptor regulates leukocyte adhesion to endothelial cells and expression of endothelial-leukocyte adhesion molecule 1 and intercellular adhesion molecule 1", <i>Proc. Natl. Acad. Sci.</i> 1992, pgs. 9991-9995.	<input type="checkbox"/>	<input type="checkbox"/>
		T. Yokomizo et al., "A G-protein-coupled receptor for leukotriene B4 that mediates chemotaxis", <i>Nature</i> 1997, pgs. 620-624.	<input type="checkbox"/>	<input type="checkbox"/>
		M.R. Buchanan et al., "Regulation of endothelial cell and platelet receptor-ligand binding by the 12- and 15-lipoxygenase monohydroxides, 12-, 15-HETE and 13-HODE", <i>Prostaglandins Leukot. Essent. Fatty Acids</i> 1998, pgs. 339-346.	<input type="checkbox"/>	<input type="checkbox"/>

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		First Named Inventor	Charles N. Serhan		
		Art Unit	621		
		Examiner Name	S. Kumar		
Sheet	5	of	5	Attorney Docket Number	7213.13

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			YES	NO
		P.M. Ridker et al., "Inflammation, aspirin, and the risk of cardiovascular disease in apparently healthy men", <i>N. Engl. J. Med.</i> 1997, pgs. 973-979.	<input type="checkbox"/>	<input type="checkbox"/>
		Communication Relating to the Results of the Partial International Search	<input type="checkbox"/>	<input type="checkbox"/>
		Takeshi Terano, Ensho, Chemical Abstract 107:22439, pp. 63-71, 1987.	<input type="checkbox"/>	<input type="checkbox"/>
		Miller et al., Lipids, Chemical Abstract 112:117062, pp. 998-1003, 1989.	<input type="checkbox"/>	<input type="checkbox"/>
		Hill, EM. Proc R. Soc. London Ser. B., 247 (1318) pp 41-46, 1992.	<input type="checkbox"/>	<input type="checkbox"/>
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First Named Inventor Charles N. Serhan

Art Unit 1625

Examiner Name S. Kumar

Sheet

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of

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			YES	NO
		Eritsland et al., "Effects of Highly Concentrated Omega-3 PUF As and Acetylsalicylic Acid, Alone and Combined, on Bleeding Time and Serum Lipid Profile", <i>J. Oslo City Hosp.</i> , Vol. 39 (8-9), pp. 97-101, 1989.	<input type="checkbox"/>	<input type="checkbox"/>
		Iacovello et al., "Modulation of Fibrinolytic Response to Venous Occlusion in Humans by a Combination of Low-Dose Aspirin and n-3 PUFAs", <i>Arteriosclerosis Thrombosis</i> , Vol. 10, pp. 1191-1197, 1992.	<input type="checkbox"/>	<input type="checkbox"/>
		Lau et al., "Effects of Fish Oil Supplementation on Non-Steroidal Anti-Inflammatory Drug (NSAID) Requirement in Patients with Mild Rheumatoid Arthritis - A Double-Blind Placebo Controlled Study", <i>British Journal of Rheumatology</i> , Vol. 32 (11), pp. 982-989, 1993.	<input type="checkbox"/>	<input type="checkbox"/>
		Rao et al., "Comparative Pharmacology of Cyclooxygenase Inhibitors on Platelet Function", <i>Prostaglandins Leukot. Med.</i> , Vol. 18 (1), pp. 119-131, 1985	<input type="checkbox"/>	<input type="checkbox"/>
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